

NASA N232 - ARC Facility
NASA Ames, Moffat Field
LEED-NC Monthly Report - Overview

| | |
|---------------|-----------|
| REPORT DATE | 5/26/2009 |
| PROJECT PHASE | CDs |

| | | |
|----|---|---|
| Y | ? | N |
| 54 | 7 | 8 |

Project Totals (Pre-certification Estimate)

Certification Target

Current:

PLATINUM

| 12 | 1 | 1 | # Documented | |
|----|---|---|--------------|---|
| | | | | Sustainable Sites |
| | | | | SSp1 Construction Activity Pollution Prevention |
| 1 | 0 | 0 | | SSc1 Site Selection |
| 0 | 0 | 1 | | SSc2 Development Density & Community Connectivity |
| 0 | 1 | 0 | | SSc3 Brownfield Redevelopment |
| 1 | 0 | 0 | | SSc4.1 Alternative Transportation Public Transportation Access |
| 1 | 0 | 0 | | SSc4.2 Alternative Transportation Bicycle Storage & Changing Rooms |
| 1 | 0 | 0 | | SSc4.3 Alternative Transportation Low-Emitting & Fuel-Efficient Vehicles |
| 1 | 0 | 0 | | SSc4.4 Alternative Transportation Parking Capacity |
| 1 | 0 | 0 | | SSc5.1 Site Development Protect or Restore Habitat |
| 1 | 0 | 0 | | SSc5.2 Site Development Maximize Open Space |
| 1 | 0 | 0 | | SSc6.1 Stormwater Design Quantity Control |
| 1 | 0 | 0 | | SSc6.2 Stormwater Design Quality Control |
| 1 | 0 | 0 | | SSc7.1 Heat Island Effect Non-Roof |
| 1 | 0 | 0 | | SSc7.2 Heat Island Effect Roof |
| 1 | 0 | 0 | | SSc8 Light Pollution Reduction |
| 4 | 0 | 1 | | Water Efficiency |
| 1 | 0 | 0 | | WE1.1 Water Efficient Landscaping Reduce by 50% |
| 1 | 0 | 0 | | WE1.2 Water Efficient Landscaping No Potable Use or No Irrigation |
| 0 | 0 | 1 | | WE2 Innovative Wastewater Technologies |
| 1 | 0 | 0 | | WE3.1 Water Use Reduction, 20% Reduction |
| 1 | 0 | 0 | | WE3.2 Water Use Reduction 30% Reduction |
| 13 | 4 | 0 | | Energy and Atmosphere |
| | | | | EAp1 Fundamental Commissioning |
| | | | | EAp2 Minimum Energy Performance |
| | | | | EAp3 Fundamental Refrigerant Management |
| 8 | 2 | 0 | | EAc1 Optimize Energy Performance |
| 1 | 2 | 0 | | EAc2 On-Site Renewable Energy |
| 1 | 0 | 0 | | EAc3 Enhanced Commissioning |
| 1 | 0 | 0 | | EAc4 Enhanced Refrigerant Management |
| 1 | 0 | 0 | | EAc5 Measurement & Verification |
| 1 | 0 | 0 | | EAC6 Green Power |

| 5 | 2 | 6 | # Documented | |
|----|---|---|--------------|---|
| | | | | Materials and Resources |
| | | | | MRp1 Storage & Collection of Recyclables |
| 0 | 0 | 1 | | MRc1.1 Building Reuse Maintain 75% of Existing Walls, Floors & Roof |
| 0 | 0 | 1 | | MRc1.2 Building Reuse Maintain 95% of Existing Walls, Floors & Roof |
| 0 | 0 | 1 | | MRc1.3 Building Reuse Maintain 50% of Interior Non-Structural Elements |
| 1 | 0 | 0 | | MRc2.1 Construction Waste Management Divert 50% from Disposal |
| 1 | 0 | 0 | | MRc2.2 Construction Waste Management Divert 75% from Disposal |
| 0 | 0 | 1 | | MRc3.1 Materials Reuse 5% |
| 0 | 0 | 1 | | MRc3.2 Materials Reuse 10% |
| 1 | 0 | 0 | | MRc4.1 Recycled Content 10% |
| 0 | 1 | 0 | | MRc4.2 Recycled Content 20% |
| 1 | 0 | 0 | | MRc5.1 Regional Materials 10% |
| 0 | 1 | 0 | | MRc5.2 Regional Materials 20% |
| 0 | 0 | 1 | | MRc6 Rapidly Renewable Materials |
| 1 | 0 | 0 | | MRc7 Certified Wood |
| 15 | 0 | 0 | | Indoor Environmental Quality |
| | | | | EQp1 Minimum IAQ Performance |
| | | | | EQp2 Environmental Tobacco Smoke (ETS) Control |
| 1 | 0 | 0 | | EQc1 Outdoor Air Delivery Monitoring |
| 1 | 0 | 0 | | EQc2 Increased Ventilation |
| 1 | 0 | 0 | | EQc3.1 Construction IAQ Management Plan During Construction |
| 1 | 0 | 0 | | EQc3.2 Construction IAQ Management Plan Before Occupancy |
| 1 | 0 | 0 | | EQc4.1 Low-Emitting Materials Adhesives & Sealants |
| 1 | 0 | 0 | | EQc4.2 Low-Emitting Materials Paints & Coatings |
| 1 | 0 | 0 | | EQc4.3 Low-Emitting Materials Carpet Systems |
| 1 | 0 | 0 | | EQc4.4 Low-Emitting Materials Composite Wood & Agrifiber Products |
| 1 | 0 | 0 | | EQc5 Indoor Chemical & Pollutant Source Control |
| 1 | 0 | 0 | | EQc6.1 Controllability of Systems Lighting |
| 1 | 0 | 0 | | EQc6.2 Controllability of Systems, Thermal Comfort |
| 1 | 0 | 0 | | EQc7.1 Thermal Comfort, Design |
| 1 | 0 | 0 | | EQc7.2 Thermal Comfort, Verification |
| 1 | 0 | 0 | | EQc8.1 Daylight & Views, Daylight 75% of Spaces |
| 1 | 0 | 0 | | EQc8.2 Daylight & Views, Views for 90% of Spaces |
| 5 | 0 | 0 | | Innovation & Design Process |
| 1 | 0 | 0 | | IDc1.1 Innovation in Design: WEc3 Exemplary Performance |
| 1 | 0 | 0 | | IDc1.2 Innovation in Design: SSC5.2 Exemplary Performance |
| 1 | 0 | 0 | | IDc1.3 Innovation in Design: Sustainable Education Program |
| 1 | 0 | 0 | | IDc1.4 Innovation in Design: Green Cleaning Program |
| 1 | 0 | 0 | | IDc2 LEED® Accredited Professional A MacGregor |

NASA N232 - ARC Facility
 NASA Ames, Moffat Field
 LEED-NC Monthly Report - Detailed

| | |
|---------------|-----------|
| REPORT DATE | 5/26/2009 |
| PROJECT PHASE | CDs |

| | | | |
|--------------|-----------|-------------|------|
| Prepared By: | Date | Checked By: | Date |
| A MacGregor | 5/26/2009 | | |

Credit Reference Legend

| | |
|--|--|
| | Not Targetted |
| | Targetted but currently not documented - evidence required |
| | Partially documented - more evidence required to complete |
| | Fully Documented |

Credit Likelihood Legend

| | |
|--|----------|
| | Unlikely |
| | Possible |
| | Likely |

| Credit Reference | | Likelihood of Credit | Available Credits | Target Credits | Solid Credits | Reach Credits | Documentated Credits | "Anticipated" Credits | LEED Submittal | DESIGN PHASE | | CONSTRUCTION PHASE | |
|--------------------------|---|----------------------|-------------------|----------------|---------------|---------------|----------------------|-----------------------|----------------|---|------------------------|---|------------------------|
| | | | | | | | | | | Design Phase Action | Phase Leader | Construction Phase Action | Phase Leader |
| Sustainable Sites | | | | | | | | | | | | | |
| SSp1 | Construction Activity Pollution Prevention | | Req | | | | 0 | 0 | C | Incorporate requirements for C.A.P.P into design package | Civil Engineer | Impliment a Construction Activity Pollution Prevention Plan | Contractor |
| SSc1 | Site Selection | | 1 | 1 | 1 | 0 | 0 | 0 | D | Site complies. Complete template accordingly | Civil Engineer | N/A | No Construction Action |
| SSc2 | Development Density & Community Connectivity | | 1 | 0 | 0 | 0 | 0 | 0 | D | Not Achievable - Not Applicable to Site | No Design Action | Not Achievable - Not Applicable to Site | No Construction Action |
| SSc3 | Brownfield Redevelopment | | 1 | 1 | 0 | 1 | 0 | 0 | D | Client investigating potential Campus Credit compliance | Client | Not Achievable - Not Applicable to Site | No Construction Action |
| SSc4.1 | Alternative Transportation - Public Transportation Access | | 1 | 1 | 1 | 0 | 0 | 0 | D | Campus shuttle connects building to existing mass transit | LEED consultant | N/A | No Construction Action |
| SSc4.2 | Alternative Transportation - Bike Storage and Changing | | 1 | 1 | 1 | 0 | 0 | 0 | D | Showers incorporated. Provide 10 Bike racks | Architect | Photograph installed bike racks | No Construction Action |
| SSc4.3 | Alternative Transportation - Low-Emitting Vehicles | | 1 | 1 | 1 | 0 | 0 | 0 | D | Low Em Vehicles Striping still to be shown for 5% of parking capacity | Civil Engineer | Photograph installed LEV parking signage | Client |
| SSc4.4 | Alternative Transportation - Parking Capacity | | 1 | 1 | 1 | 0 | 0 | 0 | D | Carpool Striping still to be shown for 5% of parking capacity | Civil Engineer | Photograph installed Carpool parking signage | Client |
| SSc5.1 | Site Development - Protect or Restore Habitat | | 1 | 1 | 1 | 0 | 0 | 0 | C | Previously graded site - incorporate natural habitat over 75% of site | Landscaping Consultant | Photograph native habitate spaces | Client |
| SSc5.2 | Site Development - Maximize Open Space | | 1 | 1 | 1 | 0 | 0 | 0 | D | No zong requirement - Provide open space = twice building footprint | Landscaping Consultant | N/A | No Construction Action |
| SSc6.1 | Stormwater Design - Quantity Control | | 1 | 1 | 1 | 0 | 0 | 0 | D | Civil to document proposed strategy and submit for consideration | Civil Engineer | N/A | No Construction Action |
| SSc6.2 | Stormwater Design - Quality Control | | 1 | 1 | 1 | 0 | 0 | 0 | D | Proposed swales strategy captures 80%+ of TSS. Civil to document | Civil Engineer | N/A | No Construction Action |
| SSc7.1 | Heat Island Effect - Non-Roof | | 1 | 1 | 1 | 0 | 0 | 0 | D | Concrete pavers used for exterior pathways within LEED boundary | Civil Engineer | N/A | No Construction Action |
| SSc7.2 | Heat Island Effect - Roof | | 1 | 1 | 1 | 0 | 0 | 0 | D | Utilize high SRI roof membrane across 100% of roof area | Architect | N/A | No Construction Action |
| SSc8 | Light Pollution Reduction | | 1 | 1 | 1 | 0 | 0 | 0 | D | Design site lighting to comply with reductions from ASHRAE criteria | Electrical Engineer | N/A | No Construction Action |
| Section Total | | | 14 | 13 | 12 | 1 | | | | | | | |
| Water Efficiency | | | | | | | | | | | | | |
| WEc1.1 | Water Efficient Landscaping - Reduction by 50% | | 1 | 1 | 1 | 0 | 0 | 0 | D | Design Landscaping to require no potable water use. | Landscaping Consultant | N/A | No Construction Action |
| WEc1.2 | Water Efficient Landscaping - Reduction by 100% | | 1 | 1 | 1 | 0 | 0 | 0 | D | Design Landscaping to require no potable water use. | Landscaping Consultant | N/A | No Construction Action |
| WEc2 | Innovative Waste Water Technologies | | 1 | 0 | 0 | 0 | 0 | 0 | D | Not Achievable - Not Applicable to Site | No Design Action | N/A | No Construction Action |
| WEc3.1 | Water Use Reduction - 20% reduction | | 1 | 1 | 1 | 0 | 0 | 0 | D | Specify low flow fixtures throughout to exceed min of 40% below std. | Mechanical Engineer | N/A | No Construction Action |
| WEc3.2 | Water Use Reduction - 30% reduction | | 1 | 1 | 1 | 0 | 0 | 0 | D | Specify low flow fixtures throughout to exceed min of 40% below std. | Mechanical Engineer | N/A | No Construction Action |
| Section Total | | | 5 | 4 | 4 | 0 | | | | | | | |

Credit Reference Legend

| | |
|--|--|
| | Not Targetted |
| | Targetted but currently not achieved - evidence required |
| | Partially achieved - more evidence required to complete |
| | Fully evidenced and awarded |

Credit Likelihood Legend

| | |
|--|----------|
| | Unlikely |
| | Possible |
| | Likely |

| | | | | | | | | | DESIGN PHASE | | CONSTRUCTION PHASE | | |
|-------------------------|---|----------------------|-------------------|----------------|---------------|---------------|----------------------|---------------------|----------------|---|-------------------------|---|-------------------------|
| Credit Reference | | Likelihood of Credit | Available Credits | Target Credits | Solid Credits | Reach Credits | Documentated Credits | Anticipated Credits | LEED Submittal | Design Phase Action | Phase Leader | Construction Phase Action | Phase Leader |
| Energy and Atmosphere | | | | | | | | | | | | | |
| EAp1 | Fundamental Commissioning | | Req | | | | 0 | 0 | C | F&K to develop OPR, Cx plans and specs and review BOD | Commissioning Authority | Undertake Commissioning Process | Commissioning Authority |
| EAp2 | Minimum Energy Performance | | Req | | | | 0 | 0 | D | Demonstrate design exceeds ASHRAE 90.1 by minimum of 30% | Mechanical Engineer | N/A | No Construction Action |
| EAp3 | Fundamental Refrigerant Management | | Req | | | | 0 | 0 | D | Utilize compliant refrigerants | Mechanical Engineer | N/A | No Construction Action |
| EAc1 | Optimized Energy Performance | | 10 | 10 | 8 | 2 | 0 | 0 | D | Demonstrate design exceeds ASHRAE 90.1 by minimum of 30% | Mechanical Engineer | N/A | No Construction Action |
| EAc2 | On-Site Renewable Energy | | 3 | 3 | 1 | 2 | 0 | 0 | D | Integrated BIPV + solar hot water heating likely to achieve 1 pt | Electrical Engineer | N/A | No Construction Action |
| EAc3 | Enhanced Commissioning | | 1 | 1 | 1 | 0 | 0 | 0 | C | F&K undertook Cx review | PM | Undertake Enhanced Commissioning Tasks in conjunction with AECOM Cx | Client |
| EAc4 | Enhanced Refrigerant Management | | 1 | 1 | 1 | 0 | 0 | 0 | D | Utilize compliant refrigerants | Mechanical Engineer | N/A | No Construction Action |
| EAc5 | Measurement and Verification | | 1 | 1 | 1 | 0 | 0 | 0 | C | Develop M&V Plan for future implementation by NASA | Commissioning Authority | Update plan to account for As-Built changes during construction | Commissioning Authority |
| EAc6 | Green Power | | 1 | 1 | 1 | 0 | 0 | 0 | C | Assess building annual electrical use through ASHRAE 90.1 analysis | Mechanical Engineer | Purchase Green Power Credits | Client |
| Section Total | | | 17 | 17 | 13 | 4 | | | | | | | |
| Materials and Resources | | | | | | | | | | | | | |
| MRp1 | Storage and Collection of Recyclables | | Req | | | | 0 | 0 | D | recyclable store incorporated into LEED boundary | Architect | N/A | No Construction Action |
| MRc1.1 | Building Reuse: 75% of existing walls, floors and roof | | 1 | 0 | 0 | 0 | 0 | 0 | C | Not Achievable - New Building | No Design Action | Not Achievable - New Building | No Construction Action |
| MRc1.2 | Building Reuse: 100% of existing walls, floors and roof | | 1 | 0 | 0 | 0 | 0 | 0 | C | Not Achievable - New Building | No Design Action | Not Achievable - New Building | No Construction Action |
| MRc1.3 | Building Reuse: 50% of interior non-structural elements | | 1 | 0 | 0 | 0 | 0 | 0 | C | Not Achievable - New Building | No Design Action | Not Achievable - New Building | No Construction Action |
| MRc2.1 | Construction Waste Management: Divert 50% | | 1 | 1 | 1 | 0 | 0 | 0 | C | Incorporate requirement for to divert a min of 75% within specifications | LEED consultant | Develop and Impliment construction waste mangement to divert min of 75% | Contractor |
| MRc2.2 | Construction Waste Management: Divert 75% | | 1 | 1 | 1 | 0 | 0 | 0 | C | Incorporate requirement for to divert a min of 75% within specifications | LEED consultant | Develop and Impliment construction waste mangement to divert min of 75% | Contractor |
| MRc3.1 | Resource Reuse: 5% | | 1 | 0 | 0 | 0 | 0 | 0 | C | Not Achievable - Limited opportunities to incorporate required %. (5% = \$450k) | No Design Action | Not Achievable - New Building | No Construction Action |
| MRc3.2 | Resource Reuse: 10% | | 1 | 0 | 0 | 0 | 0 | 0 | C | Not Achievable - Limited opportunities to incorporate required %. (10% = \$900k) | No Design Action | Not Achievable - New Building | No Construction Action |
| MRc4.1 | Recycled Content: 10% | | 1 | 1 | 1 | 0 | 0 | 0 | C | Select materials to maximize recycled content | Architect | Document the recycled content of all procured materials | Contractor |
| MRc4.2 | Recycled Content: 20% | | 1 | 1 | 0 | 1 | 0 | 0 | C | Select materials to maximize recycled content | Architect | Document the recycled content of all procured materials | Contractor |
| MRc5.1 | Regional Materials: 10% | | 1 | 1 | 1 | 0 | 0 | 0 | C | Select materials to maximize regional content | Architect | Document the regional content of all procured materials | Contractor |
| MRc5.2 | Regional Materials: 20% | | 1 | 1 | 0 | 1 | 0 | 0 | C | Select materials to maximize regional content. Challenge due to % steel | Architect | Document the regional content of all procured materials | Contractor |
| MRc6 | Rapidly Renewable Materials | | 1 | 0 | 0 | 0 | 0 | 0 | C | Not Achievable - Limited opportunities to incorporate required %. (2.5% = \$225k) | No Design Action | Not Achievable - Limited opportunities to incorporate | No Design Action |
| MRc7 | Certified Wood | | 1 | 1 | 1 | 0 | 0 | 0 | C | Specify 100% of wood products to be FSC certified | Architect | Collect the FSC CoC certificates for all wood products | Contractor |
| Section Total | | | 13 | 7 | 5 | 2 | | | | | | | |

Credit Reference Legend

| | |
|--|--|
| | Not Targetted |
| | Targetted but currently not achieved - evidence required |
| | Partially achieved - more evidence required to complete |
| | Fully evidenced and awarded |

Credit Likelihood Legend

| | |
|--|----------|
| | Unlikely |
| | Possible |
| | Likely |

| Indoor Environmental Quality | | | | | | | | | | DESIGN PHASE | | CONSTRUCTION PHASE | |
|------------------------------|---|----------------------|-------------------|----------------|---------------|---------------|----------------------|---------------------|----------------|---|-----------------------|--|-------------------------|
| Credit Reference | Credit Name | Likelihood of Credit | Available Credits | Target Credits | Solid Credits | Reach Credits | Documentated Credits | Anticipated Credits | LEED Submittal | Design Phase Action | Phase Leader | Construction Phase Action | Phase Leader |
| EQp1 | Minimum IAQ Performance | | Req | | | | 0 | 0 | D | Develop design to exceed ASHRAE 62.1 criteria by 30% | Mechanical Engineer | N/A | No Construction Action |
| EQp2 | Environmental Tobacco Smoke (ETS) Control | | Req | | | | 0 | 0 | D | Allocate external smoking area and provide client letter | Architect | N/A | No Construction Action |
| EQc1 | Outdoor Air Delivery Monitoring | | 1 | 1 | 1 | 0 | 0 | 0 | D | Provide CO2 and OA monitoring within DDC system | Mechanical Engineer | N/A | No Construction Action |
| EQc2 | Increased Ventilation | | 1 | 1 | 1 | 0 | 0 | 0 | D | Develop design to exceed ASHRAE 62.1 criteria by 30% | Mechanical Engineer | N/A | No Construction Action |
| EQc3.1 | Construction IAQ Management Plan: During Construction | | 1 | 1 | 1 | 0 | 0 | 0 | C | Incorporate requirements for IAQ management into specifications | LEED consultant | Develop and impliment IAQ management plan | Contractor |
| EQc3.2 | Construction IAQ Management Plan: Before Occupancy | | 1 | 1 | 1 | 0 | 0 | 0 | C | Incorporate requirement for IAQ testing into specifications | LEED consultant | Undertake IAQ Testing | Contractor |
| EQc4.1 | Low-Emitting Materials: Adhesives and Sealants | | 1 | 1 | 1 | 0 | 0 | 0 | C | Incorporate requirements for VOC criteria into specifications | Architect | Collect MSDS sheets for all products | Contractor |
| EQc4.2 | Low-emitting Materials: Paints and Coatings | | 1 | 1 | 1 | 0 | 0 | 0 | C | Incorporate requirements for VOC criteria into specifications | Architect | Collect MSDS sheets for all products | Contractor |
| EQc4.3 | Low-Emitting Materials: Carpet Systems | | 1 | 1 | 1 | 0 | 0 | 0 | C | Incorporate requirements for VOC criteria into specifications | Architect | Collect MSDS sheets for all products | Contractor |
| EQc4.4 | Low-Emitting Materials: Composite Wood and Agrifiber | | 1 | 1 | 1 | 0 | 0 | 0 | C | Incorporate requirements for zero use of urea formaldehyde | Architect | Collect MSDS sheets for all products | Contractor |
| EQc5 | Indoor Chemical & Pollutant Source Control | | 1 | 1 | 1 | 0 | 0 | 0 | D | Entrance matts installed. Dedicated exhaust from cleaners closets installed | Architect | N/A | No Construction Action |
| EQc6.1 | Controllability of Systems: Lighting | | 1 | 1 | 1 | 0 | 0 | 0 | D | Provide task lighting at individual workstations + control in offices. | Electrical Engineer | N/A | No Construction Action |
| EQc6.2 | Controllability of Systems: Thermal Systems | | 1 | 1 | 1 | 0 | 0 | 0 | D | Building complies as it incorporates openable windows. | Mechanical Engineer | N/A | No Construction Action |
| EQc7.1 | Thermal Comfort: Design | | 1 | 1 | 1 | 0 | 0 | 0 | D | Document compliance with ASHRAE 55 requirements | Mechanical Engineer | N/A | No Construction Action |
| EQc7.2 | Thermal Comfort: Verification | | 1 | 1 | 1 | 0 | 0 | 0 | C | N/A | No Design Action | Develop thermal comfort survey process to be implimented by NASA | Commissioning Authority |
| EQc8.1 | Daylight & Views: Daylight 75% of spaces | | 1 | 1 | 1 | 0 | 0 | 0 | D | L+U to provide LEED daylighting calcs | Specialist Consultant | N/A | No Construction Action |
| EQc8.2 | Daylight & Views: Views for 90% of spaces | | 1 | 1 | 1 | 0 | 0 | 0 | D | Complies thru floorplate design and openplan design. | Architect | N/A | No Construction Action |
| Section Total | | | 15 | 14 | 14 | 0 | | | | | | | |
| Innovation & Design Process | | | | | | | | | | | | | |
| IDc1.1 | Innovation in Design: WEc3 Exemplary Performance | | 1 | 1 | 1 | 0 | 0 | 0 | D | Achieve WEc3 exemplary by achieving 40% water reduction | Mechanical Engineer | N/A | No Construction Action |
| IDc1.2 | Innovation in Design: SSC5.2 Exemplary Performance | | 1 | 1 | 1 | 0 | 0 | 0 | D | Achieve SSC5.2 exemplary by achieving twice building footprint as openspace | No Design Action | N/A | No Construction Action |
| IDc1.3 | Innovation in Design: Sustainable Education Program | | 1 | 1 | 1 | 0 | 0 | 0 | C | N/A | No Design Action | Assist client to develop Green Education program information | LEED consultant |
| IDc1.4 | Innovation in Design: Green Cleaning Program | | 1 | 1 | 1 | 0 | 0 | 0 | C | N/A | No Design Action | Impliment Green Cleaning Program | Client |
| IDc2 | LEED Accredited Professional | | 1 | 1 | 1 | 0 | 0 | 0 | C | Upload LEED AP Certificate | LEED consultant | N/A | No Construction Action |
| Section Total | | | 4 | 4 | 4 | 0 | | | | | | | |